

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,285		07/24/2003	Raymond C. Chiu	54046US013	1871
32692	7590	05/04/2004		EXAMINER	
		PROPERTIES CO	WILLIAMS, JOSEPH L		
PO BOX 33 ST. PAUL,	K 33427 JL, MN 55133-3427			ART UNIT	PAPER NUMBER
•				2879	
				DATE MAILED: 05/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/626,285	CHIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joseph L. Williams	2879				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be tined thin the statutory minimum of thirty (30) day and will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24	<u>July 2003</u> .					
2a) This action is FINAL . 2b) Th	nis action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 32-41 is/are pending in the applicat 4a) Of the above claim(s) is/are withdr 5) ⊠ Claim(s) 32-41 is/are allowed. 6) □ Claim(s) is/are rejected. 7) ⊠ Claim(s) 32-40 is/are objected to. 8) □ Claim(s) are subject to restriction and	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and accomplicate any not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the least open and the specific and the sp	ccepted or b) objected to by the late drawing(s) be held in abeyance. See ection is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicati iority documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 24 July 2003.	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:					

Application/Control Number: 10/626,285

Art Unit: 2879

DETAILED ACTION

Claim Objections

1. Claims 32-40 are objected to because of the following informalities: Regarding independent claim 32, line 2 of the claim "Providing" should be "providing". Appropriate correction is required.

Due to their dependency, claims 33-40 are necessarily included in this objection.

Allowable Subject Matter

2. Claims 32-41 are allowed.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

The following is an examiner's statement of reasons for allowance: Regarding independent claim 32, the prior art of record neither shows nor suggest a method of forming microstructures on a substrate, comprising: providing a substrate comprising a plurality of electrodes patterned on at least one surface of the substrate, placing a slurry comprising a mixture of a ceramic powder containing TiO₂ and a curable fugitive binder between the at least one surface of the substrate and a patterned surface of a mold, wherein the patterned surface of the mold comprises a plurality of microstructures, and further wherein the plurality of microstructures are aligned with the plurality of electrodes patterned on the at least one surface of the substrate, along with the other limitations of the claim.

Application/Control Number: 10/626,285

Art Unit: 2879

Regarding independent claim 41, the prior art of record neither shows nor suggest a method of forming microstructures on a substrate, comprising: providing a substrate comprising a pattern; providing a mold comprising a microstructured surface, wherein the substrate and the mold further comprise mutual interlocking features such that when the mold is placed over the substrate with the respective mutually interlocking features mated, the microstructured surface of the mold is desirably aligned with the pattern of the substrate along with the other limitations of the claim.

Due to their dependency, claims 33-40 are necessarily allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. This application is in condition for allowance except for the following formal matters:

Please see above Action.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Application/Control Number: 10/626,285

Art Unit: 2879

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Williams whose telephone number is (571) 272-2465. The examiner can normally be reached on M-F (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Williams

Examiner
Art Unit 2879